



## Rancho Palos Verdes Building & Safety Division CARBON MONOXIDE ALARM REQUIREMENTS

### **R315.1 General:**

Carbon monoxide alarms shall comply with Section R315.

### **R315.1.1 Listings:**

Carbon Monoxide alarms shall be listed in accordance with UL 2034. Combination carbon monoxide and smoke alarms shall be listed in accordance with UL 2034 and UL 217.

### **R315.2.1 Where required in existing buildings and new construction:** (See diagram on reverse)

For existing buildings and new construction, carbon monoxide alarms shall be provided in dwelling units where either or both of the following conditions exist:

1. The dwelling unit contains a fuel-fired appliance or fireplace.
2. The dwelling unit has an attached garage with an opening that communicates with the dwelling unit.

### **R315.2.2 Alterations, repairs and additions:**

Where an addition is made to an existing dwelling, or a fuel-burning heater, appliance, or fireplace is added to an existing dwelling, not previously required to be provided with carbon monoxide alarms, new carbon monoxide alarms shall be installed in accordance with Section R315.

### **R315.3 Location:**

Carbon monoxide alarms in dwelling units shall be installed and maintained in accordance with the manufacturer's published instructions in the following locations:

1. Outside of each separate sleeping area in the immediate vicinity of the bedrooms.
2. On every occupiable level of a dwelling unit, including basements.
3. Where a fuel-burning appliance is located within a bedroom or its attached bathroom, a carbon monoxide alarm shall be installed within the bedroom.

### **R315.4 Combination alarms:**

Combination carbon monoxide/smoke alarms shall be permitted to be used in lieu of carbon monoxide alarms.

*Combination carbon monoxide/smoke alarms shall comply with section R315 and all requirements for listing and approval by the Office of the State Fire Marshall for smoke alarms.*

### **R315.5 Power Source:**

Carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and, where primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection.

### **Exceptions:**

1. Carbon monoxide alarms shall be permitted to be battery operated where installed in buildings without commercial power.
2. Carbon monoxide alarms installed in accordance with Section R315.2.2 shall be permitted to be battery powered.



# CARBON MONOXIDE ALARM REQUIREMENTS

## Continued

### **Power Source exceptions continued:**

3. Carbon monoxide alarms in Group R occupancies shall be permitted to receive primary power from other power sources recognized for use by NFPA 720.
4. Carbon monoxide alarms in Group R occupancies shall be permitted to be battery-powered or plug-in with a battery backup in existing buildings built prior to January 1, 2011, under any of the following conditions:
  - 4.1 No construction is taking place.
  - 4.2 Repairs or alterations do not result in the removal of interior wall and ceiling finishes exposing the structure in areas/spaces where carbon monoxide alarms are required.
  - 4.3 Repairs or alterations are limited to the exterior surfaces of dwellings, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck.
  - 4.4 Work is limited to the installation, alteration or repair of plumbing, mechanical or electrical systems, which do not result in the removal of interior wall or ceiling finishes exposing the structure in areas/spaces where carbon monoxide alarms are required.

### **R315.7 Interconnection:**

Where more than one carbon monoxide alarm is required to be installed within a dwelling unit or within a sleeping unit in Group R occupancies, the alarms shall be interconnected in a manner that activation of one alarm shall activate all of the alarms in the individual unit.

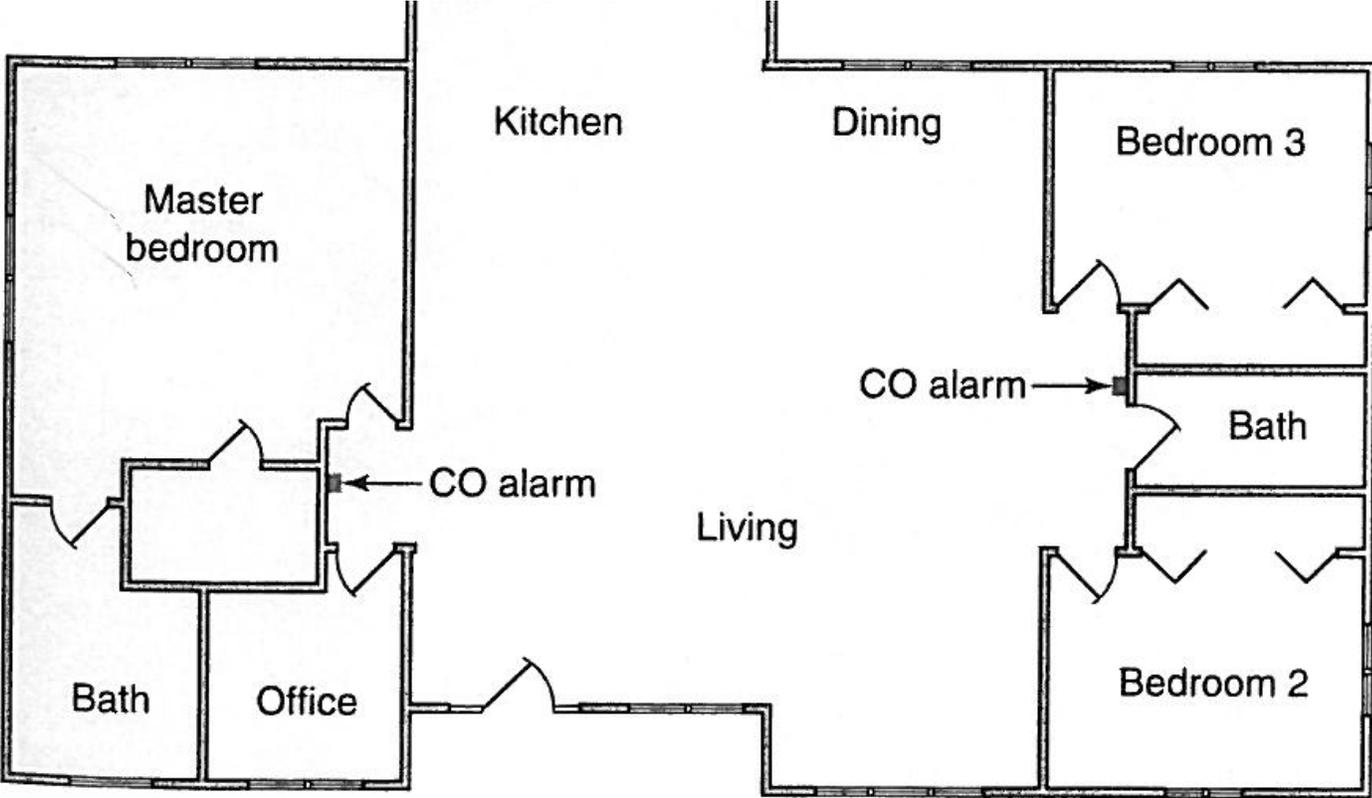
**Exceptions:** Interconnection is not required in existing buildings built prior to January 1, 2011, *under any of the following conditions:*

1. Physical interconnection is not required where listed wireless alarms are installed and all alarms sound upon activation of one alarm.
2. No construction is taking place.
3. Repairs or alterations do not result in the removal of interior wall and ceiling finishes exposing the structure in areas/spaces where carbon monoxide alarms are required.
4. Repairs or alterations are limited to the exterior surfaces of dwellings, such as the replacement of roofing or siding, or the addition or replacement of windows or doors, or the addition of a porch or deck.
5. Work is limited to the installation, alteration or repair of plumbing, mechanical, or electrical systems, which do not result in the removal of interior wall or ceiling finishes exposing the structure in areas/spaces where carbon monoxide alarms are required.



# RPV - CARBON MONOXIDE ALARM DIAGRAM

Per the example below; carbon monoxide alarms are installed outside of each separate sleeping area:



**Carbon monoxide (CO) alarm installed in the immediate vicinity of each sleeping area**